

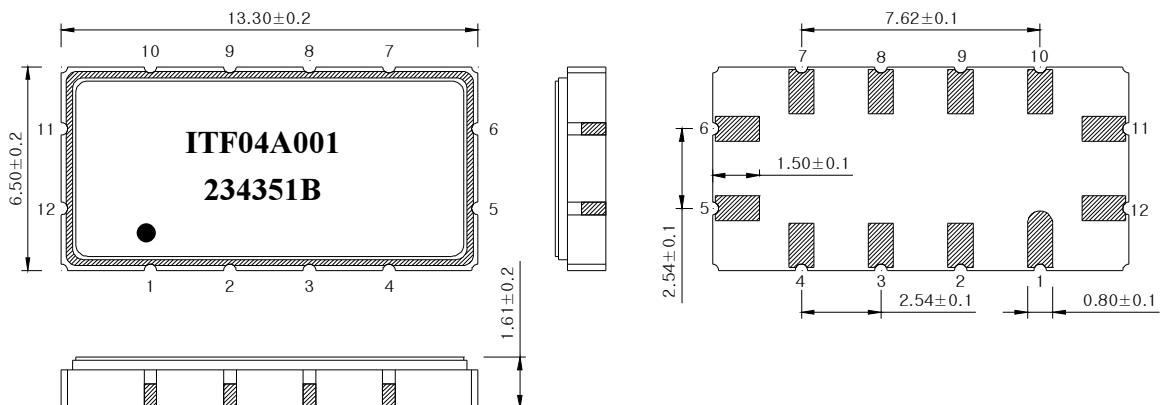
# SAW Bandpass Filter 234351B



## 1. Features

- IF Bandpass Filter
- Low-Loss Filter
- Single-Ended Operation
- Ceramic Surface Mount Device (SMD) Package
- Maximum Storage Temperature Range : -40 °C ~ 85 °C
- Electrostatics Sensitive Device (ESD)

## 2. Package Dimensions



**Package : S1365**

Dimensions shown are nominal in millimeters

Body : Al<sub>2</sub>O<sub>3</sub> Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 um, Over a 1.27 ~ 8.89 um Ni Plating

Pad Configuration	
11	Input
5	Output
6, 12	Ground
Other	Case ground

	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	234351B	
		Rev. Date	2004-11-20	
		Rev.	NJ4012-CS01	1/5

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## 3. Specifications

Fo = 76.8 MHz

Operating temperature range : -25 to + 70 °C		Minimum	Typical	Maximum
Center Frequency	MHz	76.35	76.8	77.25
Insertion Loss	dB	-	20	22.0
1dB Bandwidth	MHz	40.0	42.2	-
3dB Bandwidth	MHz	43.0	43.6	-
40dB Bandwidth	MHz	-	50.2	50.8
Amplitude Ripple (Fo +/- 19.75 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 19.75 MHz)	nsec	-	18	70
Absolute Delay	usec	-	0.88	-
Relative Attenuations				
0 ~ 52.15 MHz	dB	40	50	-
103.85 ~ 130 MHz	dB	40	43	-
Temperature Coefficient of Frequency	ppm/°C	-	-86	-

Room temperature : + 25 °C		Minimum	Typical	Maximum
Center Frequency	MHz	76.6	76.8	77.0
Insertion Loss	dB	-	20.0	21.5
Amplitude Ripple (Fo +/- 20.0 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 20.0 MHz)	nsec	-	18	70
Relative Attenuations				
0 ~ 52.4 MHz	dB	40	50	-
103.6 ~ 130 MHz	dB	40	43	-

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		Rev.	NJ4012-CS01	2/5

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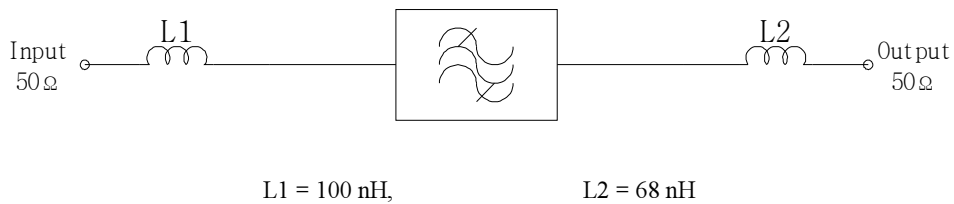


**Notes :**

- 1) All specifications are based on the matching schematic shown below
- 2) All specifications are measured by Agilent Network analyzer and full 2 port calibration
- 3) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 4) All attenuation measurements are measured relative to insertion loss

## 4. Matching Schematic

( Actual matching values may vary due to PCB layout and parasitics )



## 5. Marking Configuration

ITF<sup>1)</sup> 04A001<sup>2)</sup>

234351B<sup>3)</sup>

● <sup>4)</sup>

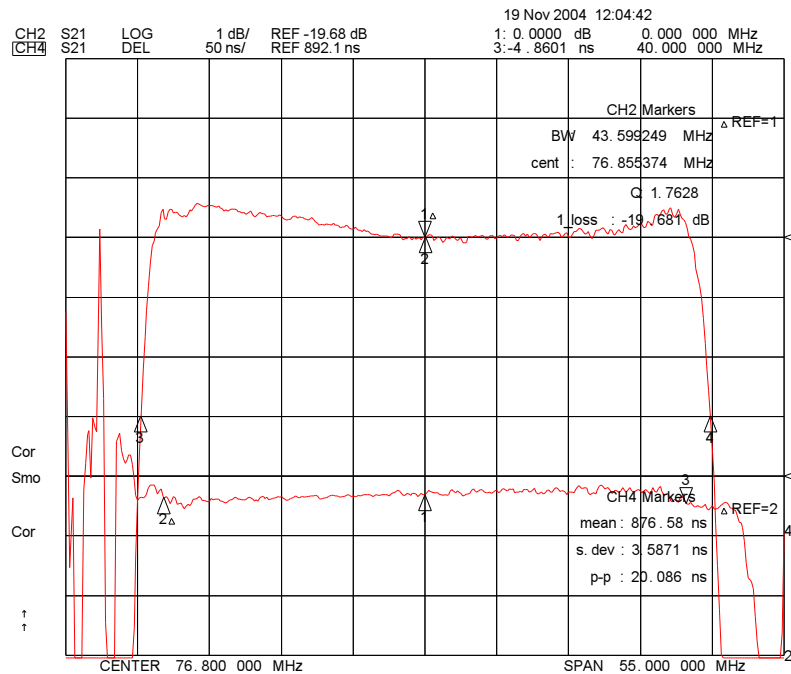
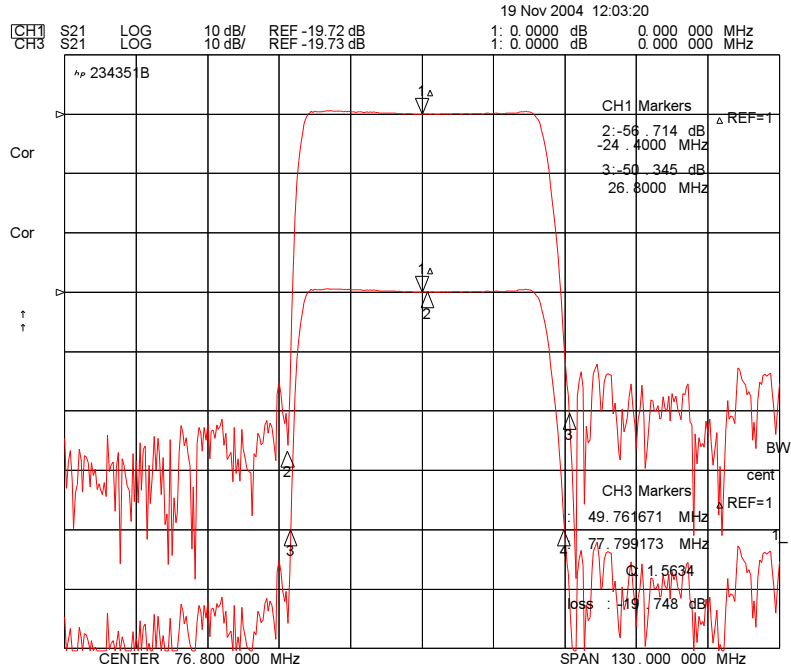
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Pad Number 1 Index

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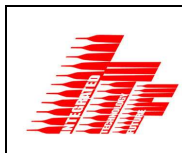
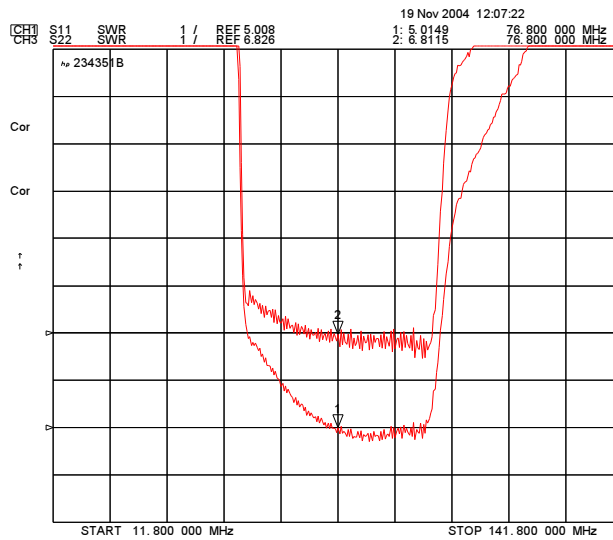
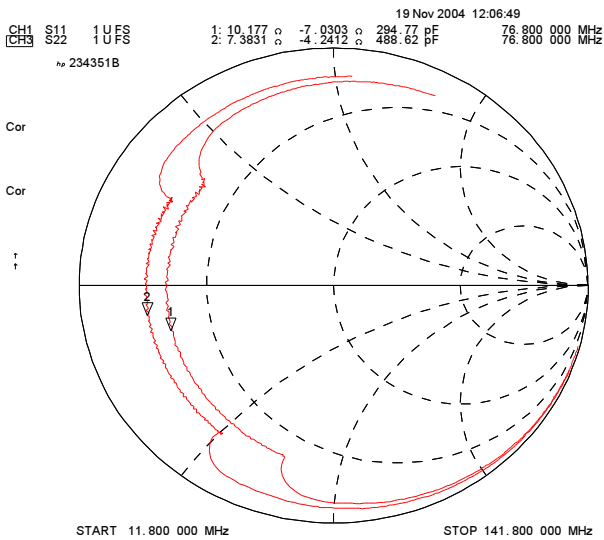
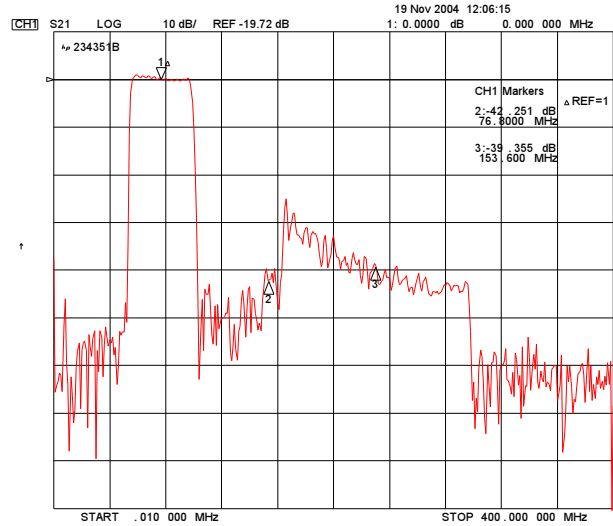
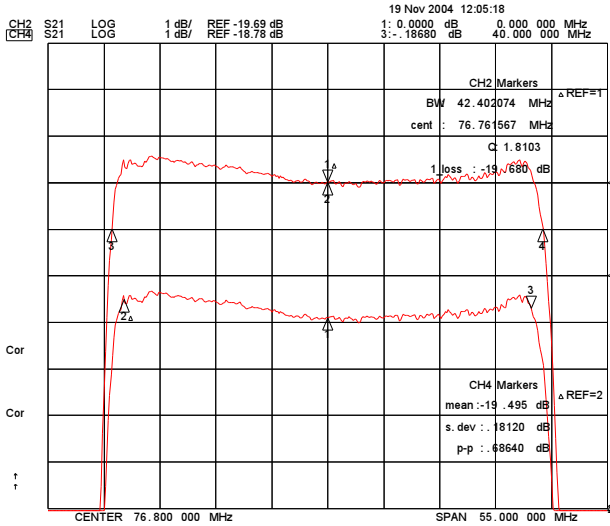


## 6. Typical Performance ( at +25°C )



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Rev. Date	2004-11-20	
Rev.	NJ4012-CS01	5/5